

# MAZDxxx Series

## Silicon planar type

For constant voltage, constant current, waveform clipper and surge absorption circuit

### ■ Features

- Low noise type

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	$I_{FRM}$	200	mA
Total power dissipation *	$P_T$	120	mW
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

Note) \*:  $P_T = 100$  mW achieved with a printed circuit board.

### ■ Package

- Code  
SSSMini2-F2
- Pin Name  
1: Anode  
2: Cathode

### ■ Marking Symbol:

Refer to the list of the electrical characteristics within part numbers

### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

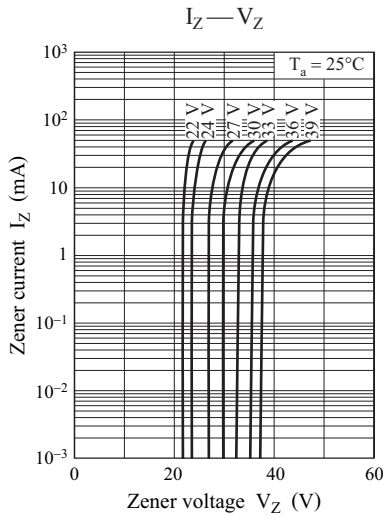
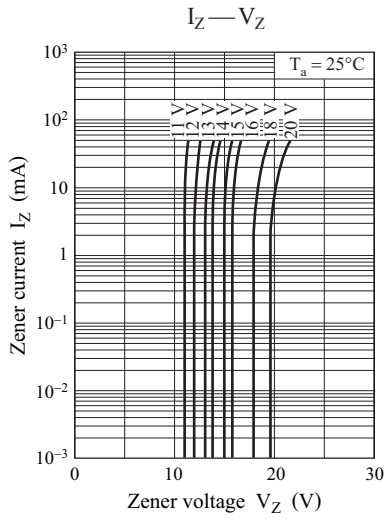
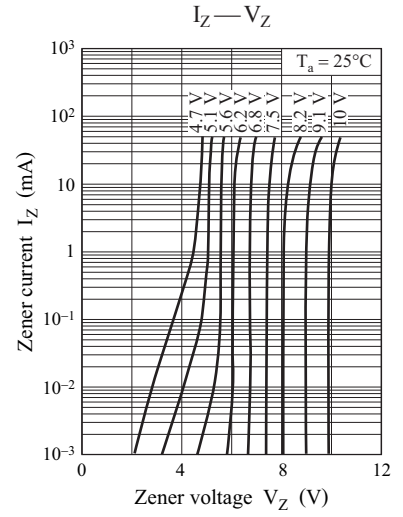
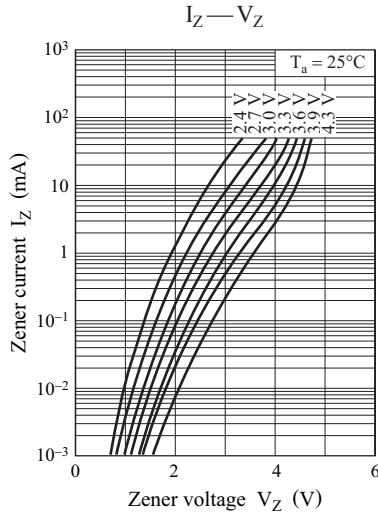
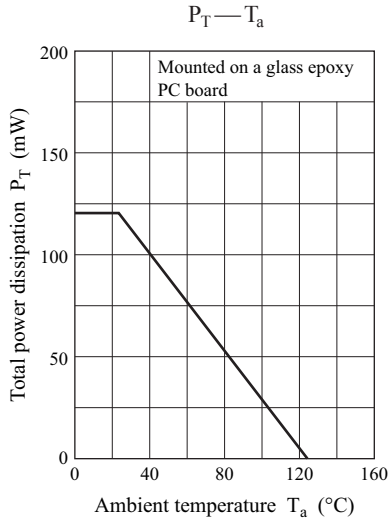
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 10$ mA		0.9	1.0	V
Zener voltage *	$V_Z$	$I_Z$ Specified value	Refer to the list of the electrical characteristics within part numbers			V
Zener operating resistance	$R_Z$	$I_Z$ Specified value				$\Omega$
Reverse current	$I_R$	$V_R$ Specified value				$\mu\text{A}$

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- Absolute frequency of input and output is 5 MHz
- The temperature must be controlled  $25^\circ\text{C}$  for  $V_Z$  measurement.  
 $V_Z$  value measured at other temperature must be adjusted to  $V_Z (25^\circ\text{C})$
- \*:  $V_Z$  guaranteed 20 ms after current flow.

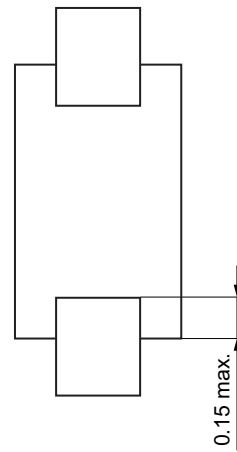
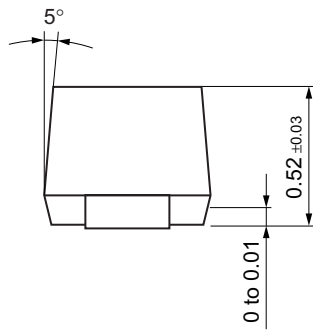
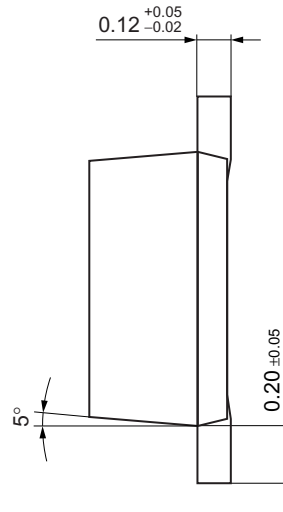
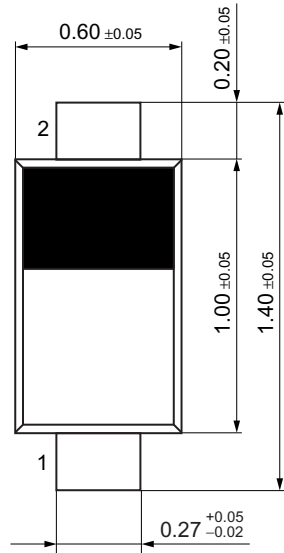
■ Electrical Characteristics within Part Numbers  $T_a = 25^{\circ}\text{C} \pm 3^{\circ}\text{C}$

Part number	Zener voltage $V_Z$ (V)				Zener operating resistance $R_Z$ ( $\Omega$ )		Reverse current $I_R$ ( $\mu\text{A}$ )		Marking symbol
	Min	Typ	Max	$I_Z$ (mA)	Max	$I_Z$ (mA)	Max	$V_R$ (V)	
MAZD051	4.80	5.10	5.40	5	60	5	1.0	2.0	BF
MAZD056	5.30	5.60	6.00	5	40	5	0.5	2.5	CF
MAZD062	5.80	6.20	6.60	5	30	5	0.2	4.0	DF
MAZD068	6.40	6.80	7.20	5	20	5	0.1	4.0	W
MAZD075	7.00	7.50	7.90	5	20	5	0.1	5.0	T
MAZD082	7.70	8.20	8.70	5	20	5	0.1	5.0	EF
MAZD091	8.50	9.10	9.60	5	20	5	0.1	6.0	FF
MAZD100	9.40	10.0	10.60	5	30	5	0.05	7.0	GF
MAZD110	10.40	11.0	11.60	5	30	5	0.05	8.0	JF
MAZD120	11.40	12.0	12.70	5	30	5	0.05	9.0	KF
MAZD160	15.30	16.0	17.10	5	50	5	0.05	12.0	NF
MAZD180	16.90	18.0	19.10	5	60	5	0.05	13.0	PF
MAZD200	18.80	20.0	21.20	5	80	5	0.05	15.0	RF
MAZD220	20.80	22.0	23.30	5	80	5	0.05	17.0	SF
MAZD240	22.80	24.0	25.60	5	100	5	0.05	19.0	UF
MAZD270	25.10	27.0	28.90	2	120	2	0.05	21.0	VF
MAZD300	28.00	30.0	32.00	2	160	2	0.05	23.0	XF
MAZD360	34.00	36.0	38.00	2	250	2	0.05	27.0	ZF



# SSSMini2-F2

Unit: mm



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